

CCP-TP-054

Revision 2

CCP

Adjustable Center of
Gravity Lift Fixture Preoperational
Checks and Shutdown

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APPROVED FOR USE

RECORD OF REVISION

Revision Number	Date Approved	Description of Revision
1	09/23/2003	Changes to this procedure in Section 1.0 and Sections 4.1 and 4.2 were incorporated in order to close CAR-SRS—0004-03.
2	10/23/2009	Revised to incorporate changes that were made to clarify Adjustable Center of Gravity Lift Fixture (ACGLF) requirements per DOE/WIPP- 02-3184, <i>CH Packaging Operations Manual</i> .

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1.0 INTRODUCTION

This procedure provides guidance for inspecting the Adjustable Center of Gravity Lift Fixture (ACGLFs). This procedure generates quality records in the Central Characterization Project (CCP) Mobile Loading Unit (MLU) Operational Logbook.

1.1 Scope

CCP personnel at the shipment site are responsible for the activities described in this procedure to conduct Contact-Handled (CH) Packaging loading operations.

2.0 REQUIREMENTS

2.1 References

Baseline Documents

- DOE Standard 1090, *Hoisting and Rigging Standard*

Referenced Documents

- CCP-QP-002, *CCP Training and Qualification Plan*
- CCP-QP-008, *CCP Records Management*
- CCP-QP-011, *CCP Notebooks and Logbooks*

2.2 Training Requirements

2.2.1 Workers performing this procedure will be trained and qualified in accordance with CCP-QP-002, *CCP Training and Qualification Plan* prior to performing this procedure.

2.3 Equipment List

2.3.1 ACGLF

2.4 Precautions and Limitations

2.4.1 Pre-Operational Checks are required prior to operating ACGLF on each shift.

2.4.2 Failure to rotate the counterweights on ACGLF to the balance position may cause ACGLF to swing uncontrollably.

2.4.3 A reading of 000 degrees (± 2 degrees) in lieu of 360° on the Counterweight No. 2 position indicator is acceptable.

2.4.4 The ACGLF is designed to lift loads using special lifting legs. Lifting loads without using lifting legs designed for the ACGLF could cause damage.

2.4.5 Only qualified personnel or trainees under the direct supervision of a qualified person are authorized to perform the activities specified in this procedure.

2.5 Precautions Actions

2.5.1 Review CCPMLU Operational Logbook for outstanding deficiencies.

2.6 Definitions

2.6.1 None.

3.0 RESPONSIBILITIES

3.1 MLU Supervisor

3.1.1 Ensures proper implementation of this procedure by the qualified
CH Packaging Operators.

3.2 CH Packaging Operators

3.2.1 Performs the specific functions of this procedure.

4.0 PROCEDURE

4.1 ACGLF Pre-Operational Checks

4.1.1 Inspect the following for tightness, wear, and damage:

- Shackles
- Bolts
- Kellum Grips
- Cables
- Lift Leg Pins

4.1.2 Inspect gears for obstructions.

NOTE

Deficiencies that are corrected when discovered may be considered a satisfactory check.

4.1.3 **IF** any deficiencies **CANNOT** be corrected,
THEN notify MLU Supervisor prior to operating ACGLF.

4.1.4 Verify power supply cord is connected to ACGLF Control Panel.

4.1.5 Verify power supply cord is plugged into an electrical receptacle.

4.1.6 Verify both cables from ACGLF are connected to Control Panel.

4.1.7 Turn red POWER switch to ON and verify switch illuminates.

4.1.8 Verify counterweights are in the following positions:

- Counterweight No. 1 is at 180 degrees (± 2 degrees)
- Counterweight No. 2 is at 000 degrees (± 2 degrees)

CAUTION

Failure to rotate counterweights on ACGLF to the balance position may cause ACGLF to swing uncontrollably.

4.1.9 Raise ACGLF off the floor.

4.1.10 Test Counterweight No. 1 switch in clockwise (CW).

- [A] Hold BALANCE ROTATION NO. 1 switch in clockwise (CW).
- [B] Verify counterweight moves CW.
- [C] Verify BALANCE POSITION indicates the change in counterweight position.
- [D] Verify TILT SENSOR readouts indicate change.
- [E] Hold BALANCE ROTATION NO.1 switch counterclockwise (CCW).
- [F] Verify counterweight moves CCW.
- [G] Verify BALANCE POSITION indicates the change in counterweight position.
- [H] Using BALANCE ROTATION NO.1 switch, position the counterweight at 180 degrees (± 2 degrees).

4.1.11 Test Counterweight No. 2 rotation and indication as follows:

- [A] Hold BALANCE ROTATION NO. 2 switch in CW.
- [B] Verify counterweight moves CW.
- [C] Verify BALANCE POSTION indicates the change in counterweight position.
- [D] Hold BALANCE ROTATION No. 2 switch in CCW.
- [E] Verify counterweight moves CCW.
- [F] Verify BALANCE POSITION indicates the change in counterweight position.
- [G] Using BALANCE ROTATION NO. 2 switch, position the counterweight at 000 degrees (± 2 degrees).

4.1.12 Hold LIFTING LEGS No. 1, 2, and 3 switch in LOCK and verify the following:

- Lifting Legs rotate to LOCKED position
- LOCK 1 indicator illuminates
- LOCK 2 indicator illuminates
- LOCK 3 indicator illuminates

4.1.13 Hold LIFTING LEGS, UNLOCK ENABLE switch in ON.

4.1.14 Hold LIFTING LEGS No. 1, 2, and 3 switch in UNLOCK and verify the following:

- Lifting Legs rotate to UNLOCKED position
- UNLOCK 1 indicator illuminates
- UNLOCK 2 indicator illuminates
- UNLOCK 3 indicator illuminates

4.1.15 If the standard waste box lift fixture adapter is to be used, inspect it for the following:

- No obvious cracks, bends twists or wear
- Lift clip assemblies locked in the proper position
- Lift clip assemblies operates freely, with no binding

4.1.16 **IF** the Ten Drum Overpack Lift Fixture Adapter is to be used, **THEN** inspect for the following:

- No obvious cracks, bends, twist or wear
- Lift clip assemblies locked in the proper position
- Lift clip assemblies operate freely with no binding

4.1.17 Initiate work order to address any deficiencies that CANNOT be corrected during performance of this procedure.

4.1.18 Record the following information in CCP MLU Operational Logbook in accordance with CCP-QP-011, *CCP Notebooks and Logbooks*:

- ACGLF Equipment Number and state inspection results as satisfactory or unsatisfactory
- Deficiencies Noted
- Corrective Action taken (debris remove, work order written, etc.)
- If a lift fixture adapter is used, enter equipment number and state inspection results as satisfactory or unsatisfactory

4.2 ACGLF SHUTDOWN

4.2.1 Place ACGLF in designated storage position.

4.2.2 Place red POWER switch to OFF and verify red POWER light off.

5.0 RECORDS

5.1 Records generated in this procedure are as follows and will be maintained in accordance with the requirements specified in CCP-QP-008, *CCP Records Management*.

QA/Nonpermanent

- CCP MLU Operational Logbook